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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/502,353	09/16/2004	Arnaud Bisson	Q82508	8113		
23373 SLIGHRLIE MI	7590 02/05/2008	EXAMINER				
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			TRAN, DZUNG D			
			ART UNIT	PAPER NUMBER		
·	. *			2613		
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	•		02/05/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/502,353	BISSON ET AL.				
		Examiner	Art Unit				
		Dzung D. Tran	2613	•			
The MAILING DATE of this co	ommunication app	ears on the cover sheet	with the correspondence ac	Idress			
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM  - Extensions of time may be available under the lafter SIX (6) MONTHS from the mailing date of If NO period for reply is specified above, the mailing to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1	THE MAILING DA provisions of 37 CFR 1.13 this communication. ximum statutory period w d for reply will, by statute, months after the mailing	ATE OF THIS COMMU  6(a). In no event, however, may  ill apply and will expire SIX (6) N  cause the application to become	NICATION.  y a reply be timely filed  IONTHS from the mailing date of this of a BANDONED (35 U.S.C. § 133).				
Status		·					
<ol> <li>Responsive to communicatio</li> <li>This action is FINAL.</li> <li>Since this application is in coclosed in accordance with the</li> </ol>	2b)⊠ This ndition for allowan	action is non-final.	•	e merits is			
Disposition of Claims							
4) Claim(s) 11-23 is/are pending 4a) Of the above claim(s) 13, 5) Claim(s) is/are allowed 6) Claim(s) 11,12,14,15,20 and 7) Claim(s) 23 is/are objected to 8) Claim(s) are subject to Application Papers  9) The specification is objected to 10) The drawing(s) filed on Applicant may not request that a Replacement drawing sheet(s) in 11) The oath or declaration is objected to	d6-19 and 22 is/ard.  d. 21 is/are rejected of the content of the Examine of the Examine of the content of the concluding the correction.	re withdrawn from construction requirement.  r.  epted or b) objected drawing(s) be held in abelian is required if the draw	to by the Examiner. yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 C				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing R  3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date	· · · · · · · · · · · · · · · · · · ·	Paper I	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application				

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#### **DETAILED ACTION**

#### Specification

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11-12, 14, 15, 20 and 21 rejected under 35 U.S.C. 103(a) as being unpatentable over Sharma et al. US patent no. 5,717,795.

Regarding claim 11, Sharma discloses in Figures 8-10, a communications node (61-66) of a backed up ring optical telecommunications network, comprising:

an optical fiber section (81) for transporting optical signals ( $\lambda$ 1,  $\lambda$ 1), and extraction means (615, 616 of Figure 8) for extracting optical signals transported by the fiber section, characterized in that, to allow the use of the same section of fiber in one direction ( $\lambda$ 1) when the network is in a normal transmission state and in the opposite direction ( $\lambda$ 1) when the network is in a backed up transmission state, the extraction means (615, 616 of Figure 8) are of the power coupler type and are bidirectional, and in that it further comprises: switching means (6115, 6116 of Figure 10) for directing optical signals extracted by the extraction means, and control means (617) for detecting and controlling the direction of the optical signals of the network. However, it would have

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been obvious to an artisan that the controller for detecting and controlling the direction of the optical signals of the network is perform the same function as a controller for detecting the transmission state and controlling the switching means as a function of that state (for example, the controller detect optical signal failure in normal state and instruct the switch to switch to different direction (i.e., protection state).

Regarding claim 12, Sharma discloses a communications node according to claim 11, characterized in that it comprises an optical gate (618, 619, 6110) controlled by the control means (617) and inserted into the fiber section (81) to pass or eliminate optical signals.

Regarding claims 14 and 20, Sharma discloses in Figures 8-10, an amplified communications node (61-66) of a backed up ring optical telecommunications network, comprising:

at least one optical fiber section 81 for transporting optical signals, switching means (6117, 6118) for each fiber section, inserted into the associated fiber section, for directing optical signals toward the associated amplifier means, and control means (617) for detecting the transmission state of the network and controlling the switching means as a function of that state.

Sharma does not specifically disclose an amplifier means for each fiber section inserted into the associated fiber section to amplify optical signals, characterized in that, to allow the use of the same section of fiber in one direction ( $\lambda 1$ ) when the network is in

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a normal transmission state and in the opposite direction ( $\lambda$ '1) when the network is in a backed up transmission state.

Since optical amplifier is well known for amplifying an optical signal and since it is also well recognized that signal degrades as it travel down through the transmission path, it would have been obvious to an artisan at the time of the invention was made to include the well known optical amplifier in the node of Sharma in order to restore the signal strength to a desirable level to obtain good signals quality.

Regarding claim 15, Sharma discloses a power coupler type extraction means (615, 616 of Figure 8) for extracting downlink optical signals transported by the fiber section of the network dedicated to transporting downlink signals.

Regarding claim 21, Sharma discloses a power coupler type extraction means (615, 616 of Figure 8) samples a faction of wavelength division multiplexing signal (i.e., demultiplexing the WDM signal).

3. Claim 23 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

Applicant's arguments with respect to claims 11-12, 14, 15, 20 and 21 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

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4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung D Tran whose telephone number is (571) 272-

3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Chan, can be reached on (571) 272-3022. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran 02/02/2008

DZUNG TRAN

PRIMARY PATENT EXAMINER